Trans Height

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-06-22-31** **Date: 11-05-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-2019
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	07/05/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	175.51	200.48	2.816	24189	180.9	7.5	7.0	8.7
2	Cover Slab-2	175.49	200.52	2.822	24183	182.3	7.5	7.0	8.8
3	Cover Slab-3	175.50	200.51	2.818	24186	181.5	7.5	7.0	8.7

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-06-22-31** **Date: 06-05-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-2019
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-05-2019

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 03/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-2019
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	27/05/2019	03/06/2019	149.42 X 150.46 X 150.20	22483	8.313	405.4	18.0	18.2
2	Culvert Concrete	M20	27/05/2019	03/06/2019	151.59 X 151.24 X 149.46	22927	8.237	422.0	18.4	
3	Culvert Concrete	M20	27/05/2019	03/06/2019	150.22 X 149.19 X 149.32	22411	8.994	403.7	18.0	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 24/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-2019
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	27/05/2019	24/06/2019	150.79 X 149.51 X 149.18	22545	8.345	528.7	23.4	22.9
2	Culvert Concrete	M20	27/05/2019	24/06/2019	149.88 X 151.03 X 151.18	22636	8.467	500.2	22.1	
3	Culvert Concrete	M20	27/05/2019	24/06/2019	151.14 X 149.08 X 149.50	22532	8.891	522.7	23.2	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/06/2019

Lab ID	:	CP-2019-06-22-31
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	149.27 X 149.77 X 149.01	22356	8.804	424.3	19.0	18.8
2	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	151.44 X 149.90 X 151.09	22702	8.875	429.2	18.9	
3	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	151.38 X 151.77 X 150.88	22975	8.775	422.4	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 22/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	150.59 X 149.82 X 149.95	22562	**8.345**	535.8	23.7	23.2
2	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	149.82 X 150.29 X 151.16	22516	**8.467**	511.9	22.7	
3	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	149.13 X 149.34 X 150.08	22270	**8.891**	512.4	23.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 03/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-2019
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	27/05/2019	03/06/2019	151.25 X 150.47 X 149.73	22759	8.377	412.0	18.1	18.4
2	Culvert Concrete	M20	27/05/2019	03/06/2019	149.46 X 151.81 X 149.13	22689	8.545	417.1	18.4	
3	Culvert Concrete	M20	27/05/2019	03/06/2019	150.41 X 150.53 X 149.59	22642	9.081	421.2	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 24/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-2019
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	27/05/2019	24/06/2019	149.68 X 150.45 X 151.62	22519	8.345	537.1	23.9	23.2
2	Culvert Concrete	M20	27/05/2019	24/06/2019	149.89 X 149.61 X 150.88	22425	8.467	507.0	22.6	
3	Culvert Concrete	M20	27/05/2019	24/06/2019	149.71 X 149.15 X 151.47	22329	8.891	514.6	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/06/2019

Lab ID	:	**CP-2019-06-22-31**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-2019
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	27/05/2019	03/06/2019	151.37 X 149.69 X 150.93	22660	8.507	418.4	18.5	18.6
2	Culvert Concrete	M20	27/05/2019	03/06/2019	151.08 X 151.08 X 149.82	22825	8.650	423.9	18.6	
3	Culvert Concrete	M20	27/05/2019	03/06/2019	149.96 X 150.63 X 151.32	22587	8.439	425.8	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 24/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-2019
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	27/05/2019	24/06/2019	151.27 X 149.35 X 150.21	22593	8.345	540.0	23.9	23.3
2	Culvert Concrete	M20	27/05/2019	24/06/2019	150.91 X 151.73 X 151.29	22897	8.467	522.1	22.8	
3	Culvert Concrete	M20	27/05/2019	24/06/2019	151.85 X 149.41 X 149.04	22688	8.891	527.2	23.2	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 01/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	150.54 X 150.55 X 151.10	22663	8.667	412.7	18.2	18.4
2	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	149.28 X 149.34 X 149.07	22294	8.376	404.7	18.2	
3	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	151.51 X 150.37 X 151.63	22784	8.195	429.3	18.8	

Note:
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Trans Eight

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 22/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	151.68 X 151.87 X 150.84	23035	**8.345**	551.4	23.9	23.3
2	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	150.08 X 150.71 X 149.45	22620	**8.467**	505.6	22.3	
3	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	149.33 X 149.82 X 149.79	22372	**8.891**	527.0	23.6	

Note:
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Consultants Pvt. Ltd. Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 01/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	151.25 X 149.33 X 151.01	22586	8.488	408.1	18.1	18.6
2	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	151.34 X 150.64 X 151.39	22797	8.606	426.1	18.7	
3	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	151.13 X 151.90 X 151.81	22958	8.202	435.7	19.0	

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Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	149.96 X 150.18 X 149.60	22521	8.345	519.1	23.1	23.0
2	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	149.23 X 150.60 X 151.90	22473	8.467	506.3	22.5	
3	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	150.44 X 151.46 X 149.10	22785	8.891	534.5	23.5	

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Lab ID	:	CP-2019-06-22-31 **Date: 01/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	151.88 X 151.03 X 150.81	22939	8.405	431.6	18.8	18.5
2	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	150.75 X 150.80 X 151.89	22732	8.715	419.9	18.5	
3	Drain Side Wall Concrete	M20	25/05/2019	01/06/2019	150.62 X 150.72 X 151.56	22701	8.409	411.2	18.1	

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Lab ID	:	**CP-2019-06-22-31** **Date: 22/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	149.14 X 150.01 X 151.40	22373	8.345	531.7	23.8	23.2
2	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	150.64 X 149.01 X 150.74	22448	8.467	504.0	22.5	
3	Drain Side Wall Concrete	M20	25/05/2019	22/06/2019	150.45 X 151.81 X 150.64	22840	8.891	535.5	23.4	

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Lab ID	:	**CP-2019-06-22-31** **Date: 25/05/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-2019
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/05/2019	25/05/2019	149.44 X 149.57 X 150.01	22352	8.815	421.8	18.9	18.6
2	Drain Bottom Slab Concrete	M20	18/05/2019	25/05/2019	150.10 X 151.77 X 150.16	22781	8.635	420.8	18.5	
3	Drain Bottom Slab Concrete	M20	18/05/2019	25/05/2019	149.91 X 150.50 X 151.61	22561	8.499	415.8	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-06-22-31** **Date: 15/06/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains (Concrete Drain) and Comprehensive Development of Roads From 12th A Cross to 20th R Cross at Bhuvaneshwari Nagar Near Coffee Board Park Ward No.06 Byatarayanapura Assembly Constituency (Near Coffee Board Park).
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-2019
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/05/2019	15/06/2019	150.76 X 151.47 X 149.39	22835	8.345	525.9	23.0	22.9
2	Drain Bottom Slab Concrete	M20	18/05/2019	15/06/2019	149.51 X 150.71 X 150.16	22534	8.467	507.5	22.5	
3	Drain Bottom Slab Concrete	M20	18/05/2019	15/06/2019	149.89 X 149.12 X 149.71	22351	8.891	515.3	23.1	

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Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-2019
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/05/2019	25/05/2019	150.13 X 151.04 X 150.19	22676	8.475	412.8	18.2	18.5
2	Drain Bottom Slab Concrete	M20	18/05/2019	25/05/2019	150.00 X 149.52 X 149.12	22428	8.645	421.4	18.8	
3	Drain Bottom Slab Concrete	M20	18/05/2019	25/05/2019	150.21 X 149.79 X 149.45	22499	9.083	413.6	18.4	

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Customer's Reference	:	BBMP/EE/BTP/WO/254/2018-19
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Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-2019
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/05/2019	15/06/2019	149.00 X 151.33 X 151.03	22549	**8.345**	534.8	23.7	23.1
2	Drain Bottom Slab Concrete	M20	18/05/2019	15/06/2019	150.16 X 149.08 X 150.90	22385	**8.467**	496.3	22.2	
3	Drain Bottom Slab Concrete	M20	18/05/2019	15/06/2019	150.33 X 149.19 X 149.04	22428	**8.891**	521.9	23.3	

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